Name:_____

New York State Testing Program

Mathematics Test
Session 1

Grade 4

Spring 2024

RELEASED QUESTIONS

1 Carter has 9 comic books. Ben has 3 times as many comic books as Carter. How many comic books does Ben have?

    A   6

    B   12

    C   24

    D   27

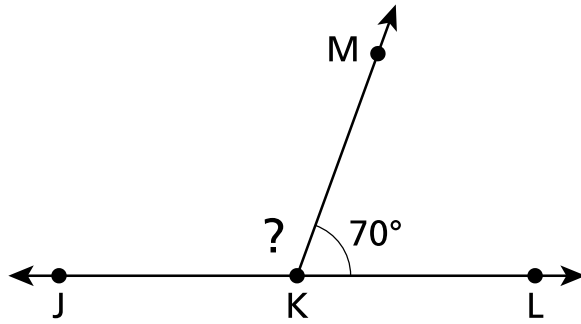**2** What value makes the equation shown below true?

$$\frac{3}{4} = \frac{9}{?}$$

    A   3

    B   9

    C   12

    D   16

GO ON

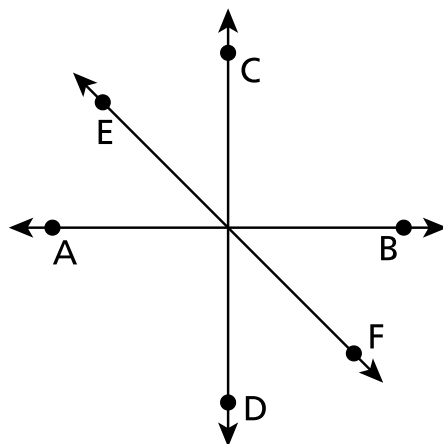**7** Ray KM divides straight angle JKL into two parts as shown below.

Which equation represents how to find the measure, in degrees, of angle JKM?

A $90 - 20 = \underline{\quad ? \quad}$

B $90 - 70 = \underline{\quad ? \quad}$

C $180 - 70 = \underline{\quad ? \quad}$

D $180 - 110 = \underline{\quad ? \quad}$

10 Which statement about the diagram shown below is **most likely** true?

A   Line AB is perpendicular to line CD.

B   Line AB is parallel to line CD.

C   Line EF is perpendicular to line CD.

D   Line EF is parallel to line CD.

11 Which fraction can be added to $\frac{4}{12}$ to equal 1 whole?

A $\frac{1}{12}$

B $\frac{4}{12}$

C $\frac{6}{12}$

D $\frac{8}{12}$

12 Which number, when rounded to the nearest thousand, is 17,000 ?

A   16,129

B   16,921

C   17,538

D   17,853

GO ON

15 Allison is training for a race. She runs $\frac{8}{10}$ mile each day. Which fraction is equivalent to the number of miles Allison runs in 7 days?

A $\frac{56}{10}$

B $\frac{15}{10}$

C $\frac{56}{70}$

D $\frac{8}{70}$

16 What is the value of $102 \div 6$?

A 16

B 17

C 96

D 108

22 What is the value of the expression shown below?

$$4\frac{1}{4} - 2\frac{2}{4}$$

A $1\frac{1}{4}$

B $1\frac{3}{4}$

C $2\frac{1}{4}$

D $2\frac{3}{4}$

23 How many hundreds are in 1,000 ?

A   1

B   10

C   100

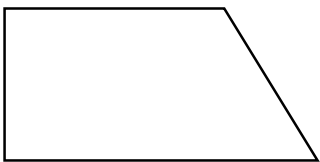D   1,000

24 Which equation is **not** true?

A $5 \times \dfrac{3}{4} = \dfrac{15}{20}$

B $4 \times \dfrac{2}{5} = 8 \times \dfrac{1}{5}$

C $3 \times \dfrac{5}{6} = \dfrac{15}{6}$
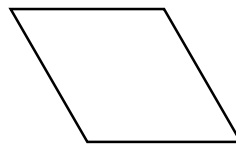
D $2 \times \dfrac{4}{8} = 8 \times \dfrac{1}{8}$
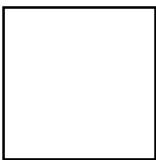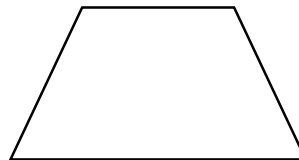
26 Which figure appears to be a rectangle?

A

C

B

D

29 What is the product of 3 and 2,470 ?

    A   6,210

    B   6,213

    C   7,410

    D   7,413

GO ON

30 The perimeter of a square floor is 120 feet. What is the length, in feet, of each side of the floor?

A   20

B   30

C   40

D   60

Grade 4
Mathematics Test
Session 1
Spring 2024

Name: _____

New York State Testing Program
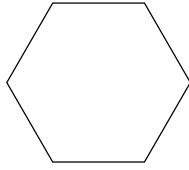
Mathematics Test
Session 2

Grade **4**

Spring 2024

RELEASED QUESTIONS

31 A figure with all equal sides is shown below.

How many lines of symmetry does the figure have?

A   1

B   2

C   5

D   6

32 A group of 80 students goes to a zoo. The price for each student to ride the bus to the zoo is $3. The price for each student to get into the zoo is $2. What is the total price for all of the students to ride the bus and get into the zoo?

A $160

B $240

C $400

D $480

GO ON

33 Which number sentence shows a correct comparison?

A $\dfrac{1}{3} > \dfrac{3}{4}$

B $\dfrac{4}{5} < \dfrac{1}{3}$

C $\dfrac{1}{3} = \dfrac{3}{4}$

D $\dfrac{3}{4} < \dfrac{4}{5}$

34 An incomplete area model is shown below. The area model can be used to represent the product of 35 and 43.

Which equation shows how to find the value of the area model after it is complete?

A $1,200 + 200 + 90 + 15 = 1,505$

B $1,200 + 20 + 90 + 15 = 1,325$

C $120 + 200 + 90 + 15 = 425$

D $120 + 20 + 90 + 15 = 245$

35 Which expression is equivalent to $2\frac{4}{6}$?

A $1 + 1 + \dfrac{2}{3} + \dfrac{2}{3}$

B $\dfrac{6}{6} + \dfrac{6}{6} + \dfrac{2}{6} + \dfrac{1}{6} + \dfrac{1}{6}$
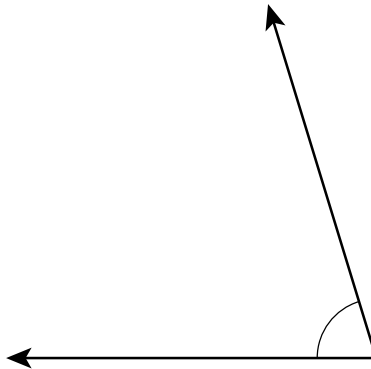
C $1 + 1 + \dfrac{3}{3} + \dfrac{1}{3}$

D $\dfrac{6}{6} + \dfrac{6}{6} + \dfrac{1}{6} + \dfrac{1}{6} + \dfrac{1}{6}$

36 **This question is worth 1 credit.**

What is the measure, in degrees, of the angle shown below?

Answer _____ degrees

37 **This question is worth 1 credit.**
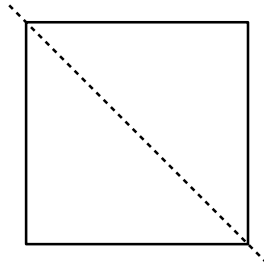
List all the factors of 21.

Answer _____

38 **This question is worth 1 credit.**

A square is divided into two equal triangles as shown below.

What type of triangles are created when the square is divided into the two equal triangles?

Answer _____ triangles

39 **This question is worth 2 credits.**

A soccer team sold water bottles to earn money to buy new soccer balls. The team earned a total of $170. If the team pays $9 per soccer ball, what is the greatest number of soccer balls they can buy with the money earned?

Explain your answer.

_____

_____

_____

40 This question is worth 2 credits.

Two numbers are shown below.

    4,699 and 4,780

Write the two numbers in expanded form, and then compare them using the >, <, or = symbol. Be sure to include what you know about place value in your answer.
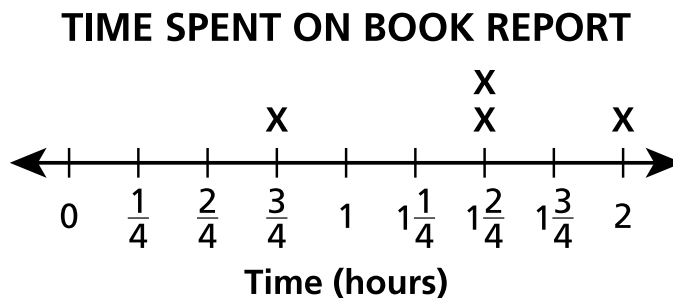
Explain how you know your answer is correct.

_____

_____

_____

41 **This question is worth 2 credits.**

The line plot below shows the amount of time Jamie spent working on his book report each day for four days.

TIME SPENT ON BOOK REPORT

$$
\begin{array}{cccccccccc}
 & & & & & & & X & & \\
 & & & & X & & & X & & X \\
\end{array}
$$

0	$\frac{1}{4}$	$\frac{2}{4}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{2}{4}$	$1\frac{3}{4}$	2	

Time (hours)

What is the total amount of time, in hours, that Jamie spent working on his book report for those four days?

Show your work.

Answer _____ hours

GO ON

42 This question is worth 2 credits.

Two expressions are shown below.

Expression A: $\dfrac{1}{4} \times 2$
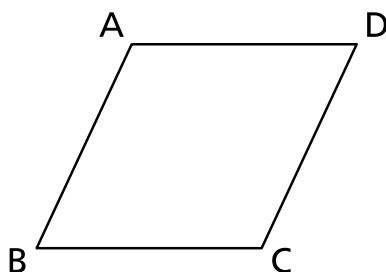
Expression B: $\dfrac{1}{2} \times 5$

Which expression, A or B, has a value greater than 1 ? Be sure to include the value of each expression in your answer.

Explain how you know your answer is correct.

_____

_____

_____

43 This question is worth 2 credits.

A rhombus is shown below.

Use what you know about parallel, perpendicular, or intersecting sides to describe one pair of sides in the rhombus shown.

Explain how you know your answer is correct.

_____

_____

_____

44 **This question is worth 3 credits.**

Chairs have been set up for an event. There are 11 rows of chairs with 12 chairs in each row. When the event is over, the chairs are put away on chair racks. If each chair rack holds exactly 9 chairs, what is the **fewest** number of chair racks needed to hold all of the chairs?

Explain how you know your answer is correct.

_____

_____

_____